

# MINING journal VOL.300

AND

# MINING magazine VOL.148

# INDEX

1983

JANUARY-JUNE

## CONTENTS

Metals and Minerals	Page 1
Countries	Page 4
Methods and Machines	Page 8
Companies and Other Public Bodies	Page 10

## INDEX CLASSIFICATION

L	Letters	N	Notes and Comments
M	Methods and Machines	O	Obituaries
ME	Company Meetings	P	Panorama
MF	Mining Finance	R	Book Reviews
MW	Mining Week	S	Metal Markets

This combined index covers the complete editorial content of both Mining Journal and Mining Magazine. Additional copies may be obtained from the Subscription Department.

## Metals and Minerals

### ALUMINIUM

Barter agreements	MW J003
Australian smelter plans	IA J009
Suriname stoppage over	IA J010
Pechiney steps up aluminium sales	IA J011
Aluminium: Ghana seeks revision of Valco agreement	MW J019
Aluminium strengthens FUK deal	IA J026
Gulf alumina refinery study	IA J026
Paraguay smelter talks continue	IA J026
Japanese Al predictions	IA J027
Plans for Hokkaido refinery	IA J027
Norwegian viewpoint	MW J037
Potline completion for Noranda	IA J043
Australian aluminium for Sumitomo	IA J043
IPIAI reports	IA J060
Alumax defers plans	IA J060
Alba power fault	IA J060
Alumina plant remains closed	IA J061
Alumina project discussions	IA J061
Smelter plans shelved	IA J061
Albras smelter progress	MW J071
Worsley project: Japanese withdrawal?	IA J078
China proposes aluminium project	IA J079
Chalmette curtailment	IA J079
Progress at Karmoy smelter	IA J080
Greek smelter talks underway	IA J097
Alumina or aluminium?	MW J108
Aluminium gains confidence	S J109
Cutback for Valco	IA J112
Alparit reprieve	IA J114
IPIAI stocks	IA J114
Atlantic Richfield partner sought	IA J115
Reynolds considers acquisition	IA J115
Caution for aluminium	S J127
Refinery due for start-up	IA J163
Alcoa reducing stocks	IA J163
Alcoa plans Washington resumption	IA J179
Primary aluminium output falls	IA J194
New record for LME aluminium	S J207
North American primary aluminium output down	IA J234
Aluminium unsettled	S J251
Kaiser to re-start potlines	IA J256

National Southwire and others to increase Al output	IA J256
U.S. aluminium output	IA J272
Mitsui fails to acquire Martin Marietta division	IA J273
Aluminium hovers	S J287
Potline resumption for Conalco	IA J290
Fall in Japanese aluminium output	IA J311
Encouraging outlook	MW J324
Aluminium breaks out	S J327
Biotan plant shelved?	IA J330
Aluminium out in front	S J342
Aluminium holds its ground	S J359
Aluminium production down	IA J362
Aluminium loses ground	S J373
Quebec introduces smelter bill	IA J381
Aluminium steady	S J394
Reynolds and Alcoa to reactivate potlines	IA J398
Increased output for Queensland Alumina	IA J399
Kaiser to close Ghana potlines	IA J399
Deal for Reynolds and Consolidated	IA J400
Further aluminium pacts reached	IA J400
Aluminium shines	S J411
Arco Al restarts potline	IA J415
New record for aluminium	S J427
Alcoa ups Australian output	IA J432
<b>ANTIMONY</b>	
Imminent recovery?	MW J266
Asarco's antimony plans	IA J346
<b>ASBESTOS</b>	
Manville sale	IA J399
<b>BARYTES</b>	
Open pit barytes mining at Ballynoge, Ireland	A M194
<b>BAUXITE</b>	
Alcoa bauxite for Inter-Alumina	IA J011

Boerian bauxite record	IA J027
Billiton buys Halco stake	IA J027
Bauxite mine starts up	IA J060
Ropeway refurbishment	IA J061
Yugoslav bauxite	H M012
Cameron to exploit bauxite and Fe ore	H M012
Trombetas bauxite	A M018
Weipa bauxite	IA J097
Silo-2 onstream	IA J114
Brazil and U.S.S.R. in bauxite talks	IA J194
Greek bauxite mine contemplates expansion	MW J204
Comalco cuts production	IA J211
Suriname's problems	MW J265
Jamaican bauxite sales	IA J273
Madagascar: bauxite potential	IA J310
U.S. to buy more Jamaican bauxite	IA J381
India to join Bauxite Association	IA J415
Bauxite strike continues	IA J433

### BERYLLIUM

Brush Wellman to increase output	IA J330
----------------------------------	---------

### BISMUTH

Bismuth supplies interrupted	IA J331
------------------------------	---------

### CADMIUM

Price uncertainties prevail	MW J173
-----------------------------	---------

### CHROME

Chrome producers feel squeeze	MW J108
Chrome trade for China and Turkey	IA J257
Demand boom forecast	MW J305
Ferrochrome smelter inaugurated	IA J311
Depressed markets close	IA J330
Mill sell	

### COAL

Botswana's coal output hopes	MW J003
Record coal production from China	IA J009

BHP coal export plan	IA J010
Gencor raises Oakbridge stake	IA J010
El Cerrejon order	IA J010
Contract for Armo	IA J011
Coal demand falls	MW J020
Fruite delayed	IA J026
Quintette financing secured	IA J026
Esso plans Byron Creek output	IA J027
Coal closures	IA J027
U.S. coal exports fall	IA J027
Raymond affiliate to design coal terminal	IA J028
Marley Neck abandoned	IA J028
British Columbia's Northeast Coal Project well advanced	MW J036
Tasmanian coal	IA J042
Saudi coal	IA J042
RCR colliery investment	IA J042
Senkian coal project	IA J042
Yugoslav mine expansion	IA J043
Soviet assistance for Indian coal mines	IA J043
U.K. - offshore coal exploration	MW J052
Gloomy prospects for coal	MW J053
Record at Sasol colliery	IA J080
Czechoslovak coal boom	IA J081
First coal through new terminal	IA J083
Indian coal miners strike	IA J083
Lignite finds	H M012
Botswana coal study	H M013
Tanzanian coal plans	H M013
Virginia coal terminal	H M015
Meekatharra coal reserves	H M015
Plans for New Colliery coal mine	IA J079
Oaky Creek mining underway	IA J079
Alaskan coal contract	IA J080
Coal sale for Malaysia	IA J080
Lighting for Selby	IA J080
Coal evaluation in Patagonia	IA J096
Iscor trial mine	IA J096
Utah Coal closures	IA J097
Fording River: July shutdown	IA J097
Australian coal output	IA J097
Bunosa raises output	IA J097
Meekatharra makes coal proposal	IA J097
Bucket wheel for Victoria coal	IA J098
Fairwood sells out	IA J098
Coal stockpile for RAIL	IA J098
Drayton struggles with mining ban	MW J107

Go-ahead for Chinese coal mines	IA	J113	Progress at Selby: 2 - conveyor systems in the North and South Drifts	A	M425	Shipments to Anascondia	IA	J185	Gold mine option for Joy	IA	J061
Yarabes cutback	IA	J114	Progress at Selby: 3 - Galloway Wood facilities	A	M433	More details on Escondida copper deposit, southern Chile	P	M181	Canadian gold sale	IA	J061
Japan seeks coal concessions	IA	J114	Continuous miner breaks world record	M	M466	A Bird's eye view	NW	J205	U.S. Au and Cu finds	H	M015
Selby contract awarded to Korea	IA	J115				Anascondia to re-open?	IA	J211	Wilroy on schedule	H	M015
Quinn's concerns voiced	IA	J115				Daval announces Sierrita	IA	J234	Prospects good for Harbour Lights	H	M015
Japan drives down coal prices	NW	J126				Japan sells copper to China	IA	J235	Drought disrupts OK Test	H	M015
Coal in Western Australia	A	M110				Copper falters	S	J251	Parings Au expansion	H	M015
Coal in Victoria	A	M112				Quebec copper venture	IA	J255	Indian Au find	H	M017
British Coal International	A	M133				Copper project awaits price rise	IA	J256	Sudan's mineral deposits	A	M031
Cutlerhead dredge reclaim coal fines	M	M154				Poland copper ore output	IA	J256	Use of metal detectors in gold mines	A	M037
Coal: EEC takes a long view	NW	J140				Philips Dodge to restart smelter	IA	J257	Lacana finds more gold in Nevada	NW	J071
Government aid for anthracite mine	NW	J142				Copper loan talks fail	IA	J257	Gold at Pine Creek	NW	J073
McLeod River is granted permit	IA	J147				Japanese smelters reduce output	NW	J266	Gold and sterling considerations	S	J075
NSW coal project deferred	IA	J147				Chinese buying boosts copper	S	J267	Harbour Lights encouragement	IA	J078
U.S.S.R. below target on coal	IA	J148				Rindutan Copper record	IA	J272	Steep Rock confirms vein system	IA	J078
U.K. coal strike threat	IA	J148				Pasar smelter: producer tax threatened	IA	J273	North Kalgurli reserve report	IA	J078
Fisherman coal terminal commissioned	IA	J148				Philippines: Philex expansion	NW	J284	Asarco to buy gold prospects	IA	J078
Coal handling facility for JCI	IA	J148				Uncertain outlook	NW	J285	Southern drillings	IA	J078
Charlie coal plan	IA	J163				Chinese purchases continue	S	J287	Salma plans	IA	J078
Japan to pay less for S.A. coal	IA	J163				Improved demand for Tyron	IA	J291	Flint Plan to build mill	IA	J079
Canadian face Sukit Asam threat	IA	J163				Mines to reopen in	IA	J291	Jerritt Canyon's first year	IA	J079
Contract for lignite mine	IA	J164				Copper is mined once again in Oman	P	M267	Plans to mine Cowarra	IA	J079
Lakhta lignite project planned	NW	J172				Copper and Portage mines	A	M274	South Korea to export more gold	IA	J080
Customers call the tune	NW	J173				Copper marks time	S	J307	Soviet gold sales	IA	J080
Ulas coal contract signed	IA	J180				Iranian copper plans	IA	J311	Hemlo drill results	IA	J086
Equipment for Selby	IA	J180				Zambia output to increase	IA	J311	Dannybrook drilling for West Coast	IA	J086
Coal exploitation for Hancock and Newlander	IA	J193				Hayden smelter expenditure	IA	J311	Anascondia retains option	IA	J086
Zambia borrows from World Bank	IA	J194				Chile: CODELCO maintains strategy	NW	J324	Gold find in Shandong	IA	J086
BNK in Bowen Basin	P	M183				Copper sets the pace	S	J327	Waddy Lake drilling	IA	J086
Coal study for Getty subsidiary	IA	J210				Anascondia completes Pelambres drilling	IA	J329	Upper Volta: gold plans	IA	J086
Hungarian/Czechoslovak coal JV	IA	J211				Salda project approved	IA	J330	Jay acquires gold mine option	IA	J097
New coal mines for Romania	IA	J211				Copper project for Asan companies	IA	J330	Kruggerand sales rise	IA	J098
Contract for Indonesian lignite project	IA	J213				Copper consolidates	S	J342	Golden Rose gold prospect	IA	J113
Coal producers bite the bullet	NW	J224				Record output for ZCCM	IA	J346	Lake	IA	J113
Novel financing arranged for BHP's mega-project	NW	J224				Japanese copper for China	IA	J347	Horse Canyon on schedule	IA	J113
Long term coal contracts	IA	J235				U.S. copper mine output	IA	J363	S.A. gold output	IA	J114
Australian price reductions	IA	J257				Copper production costs	IA	J381	Gold rocks the boat	S	J122
Japan halts McIntyre coal imports	IA	J257				Copper lacks inspiration	S	J394	Gold mineralisation found in W.A.	IA	J130
Dear Tooth up for sale	IA	J271				Copper prices cut	IA	J400	Exploration stake for Swan Resources	IA	J130
Mongol Arthur on hold	IA	J271				Noranda's Goldstream mine comes into production	NW	J409	Gold stake for Union Carbide	IA	J130
Jungar coal plans	IA	J271				Golden Jubilee for CDA	NW	J409	Sheshan's drilling	IA	J130
Indian coal target	IA	J272				Copper lags	S	J411	Nor Pascalis further encouragement	IA	J130
Further price cut for coal	IA	J273				Weather affects Chuquibambilla refinery	IA	J415	Iran to develop gold mines	IA	J130
Orders for B.C. coal	IA	J291				Peru: copper target	IA	J415	Japan imports less gold	IA	J132
Coal sampling systems ordered	IA	J292				Santa Barbara expansion complete	IA	J416	Gold prospecting in Zambia	P	M102
Good and bad for Coal Board	IA	J310				Copper strike spreads	NW	J424	Nemetschke Territories gold mine	P	M102
New Chinese coal deposit	IA	J310				Supply threats boost copper	S	J427	Gold takes a tumble	N	J137
Welsh investment for NCB	IA	J310				Coppermine River project not economic	IA	J431	Precious metals plummet	S	J143
Only Greek shipment ahead of schedule	IA	J312				Kennecott closes Nevada smelter	IA	J431	Noranda continues Hemlo exploration	IA	J146
Berau coal JV	IA	J312				Yugoslavia to produce more	IA	J432	D'Or Val drill results	IA	J146
Loader loan agreement	IA	J312				Sulitjelma: no takers	IA	J433	Balmoral acquires prospecting licence	IA	J146
New coal prospects in New Zealand	IA	J329				Codelco-Chile's capital project plans	P	M409	Sudanese gold interest for Robertson Research	IA	J146
Coal survey for Pakistan	IA	J329							Glencol acquires mining claims	IA	J146
Go-ahead for Callide B	IA	J330							Bandits attack Canan project	IA	J146
Hampton Areas buys coal mine	IA	J331							Western Gold Mines: recent drilling	IA	J146
Drought could cut coal and gold output	NW	J340							Medusa Energy Resources Griffin's Find to start producing	IA	J147
Coal conversion to cut costs at Maridunne's nickel refinery	NW	J341							Lupin Mine expansion	IA	J147
Wintina studies underway	IA	J345							Mount Martin to re-open	IA	J148
Coal mine approval for Mercoal Minerals	IA	J346							Anascondia gold option on gold property	IA	J148
Orders for coal mining systems	IA	J347							Montana's newest gold mine	NW	J156
Boilers for Selby	IA	J347							New plant for Ergo	NW	J157
Tax burden penalises Queensland coal producers	NW	J356							Fall in Japanese gold imports	IA	J162
Pakistan plans major coal development	NW	J357							Indian gold find	IA	J162
Margaret River JV seeks capital funding	IA	J362							Inca details Rich Gulch reserves	IA	J162
Burdellian update	IA	J362							Dumagani mill plan	IA	J162
Companies bid for Philippine coal handling contracts	IA	J364							Promising find for Pancontinental	IA	J178
World Bank loan for Korea	IA	J364							Wiluna project update	IA	J178
Bullmoose coal - a major undertaking	P	M037							Western Australian gold venture partners	IA	J178
Greek lignite mines to be modernised	IA	J379							Gold output rise in S.A.	IA	J179
Burnett & Hallamshire to buy PWS Coals	IA	J380							Rosario in production	IA	J179
Korean involvement in Cook Colliery	IA	J380							Canada to sell reserve gold	IA	J180
Berezovka mine plan	IA	J398							1982 mine production estimates	NW	J187
Coal technology exchange	IA	J415							Gold tumbles again	S	J191
Coal price decreases resisted	IA	J416							Hedge Lake progress	IA	J193
Murdock mine: plant expansion	IA	J432							Report on Porgera venture	IA	J193
Daw Mill drift opened	IA	J432							Agassiz ore reserves	IA	J193
Greek lignite production to rise	IA	J432							Sungate to extend Resuable	IA	J194
Hibane sales to Iscor	IA	J433							millings	IA	J194
Rise in Polish coal exports	IA	J433							S.A. gold exports increase	IA	J194
Coal handling facility for Tyndeside	IA	J433							Fall in Japanese gold imports	IA	J195
Progress at Selby: 1 - Overall project concept; the Wintow mine	A	M416							Excitement at Hemlo	P	M181
									New gold horizons	N	J201
									Gold prospect upgraded	IA	J210
									Encouraging results for Anascondia	IA	J210
									Lincoln acquires mineral rights	IA	J210
									Kiena plans to increase production	IA	J211
									Westfield options Northgate property	IA	J233
									Major drill programme for Tomba Springs	IA	J233
									Bronco update	IA	J233
									Czechs to explore gold prospects	IA	J233

Horseshoe Lights operational again IA J234  
French gold mine to get \$238 million boost IA J234  
On gold futures N J246  
Sioux Lookout: better grades IA J255  
Devon gold mine update IA J255  
Harbour Lights: significant values IA J255  
Update on Shebandowan property IA J255  
Gold property programme for new company IA J255  
CRA gold prospects IA J255  
Bellevue encouragement IA J256  
Carolin mill suspension IA J256  
Japanese gold imports up IA J257  
Disappointing year for LGFM S J267  
Donnybrook encouragement IA J271  
Work on Kiosa mill IA J271  
Ladner Creek back in action IA J271  
Plans to reopen Egyptian gold mines IA J272  
McBean reserves IA J290  
Fochville gold project IA J290  
Gold veins in Colombia IA J290  
Boulder Creek target IA J290  
Krugrand sales up IA J291  
Ortiz, Gold Fields' first U.S. gold mine P M266  
Copper Rand and Portage mines A M274  
Getty's Utah gold mine Gold output to increase NW J303  
Noranda details Hemlo expenditure IA J310  
Broad Arrow IV IA J310  
Further acquisitions for Island Mining IA J310  
Golden Mile results IA J310  
Work on Welsh gold mine IA J310  
Maid adn Dhanab officially reopened IA J310  
Goldquest plans for Abino deposit IA J311  
Rise in S.A. gold output IA J311  
Promising new Australian venture NW J325  
Gold property for Pacific Copper IA J329  
Sabina reports gold find IA J329  
Gold properties for Terramar IA J329  
Black Hill in gold deposit IA J329  
Caris acquires more interests IA J330  
Workings collapse IA J331  
Drought could curb coal and gold output NW J340  
Doocego feels the pinch NW J341  
Drilling on Ray Smith Occurrence IA J345  
Interest in Nevada gold mine IA J345  
Bamboo Creek: development soon IA J345  
Investment for French gold producer IA J345  
Mill for Muscocho IA J346  
April gold IA J346  
West End heap leaching IA J346  
Fall in April Krugrand sales IA J347  
Higher gold output boosts W.A.'s mineral revenues NW J356  
Martha Hill gets underway IA J362  
Corby's anomalies IA J362  
Mount Henry drilling IA J362  
Gold for Consolidated Resources IA J362  
McBean gets go-ahead IA J362  
Japanese gold imports down IA J363  
Carr Boyd reports further significant gold values P M337  
Historic Brazilian mining company looks ahead P M339  
Golden Sunlight mine N J369  
OLD 1983 IA J379  
Reedy drilling IA J379  
Jingelle buys into Nevada IA J379  
Griffins Find plant in operation IA J379  
Pegasus resumes heap leaching IA J379  
Precious metals struggle S J394  
Hemlo production schedule IA J398  
Indonesian gold prospect IA J398  
Drilling difficulties at Beaconsfield IA J398  
Gibraltar drill programme IA J398  
Futures market considers proposals IA J399  
Expansion at Lupin gold mine NW J408  
New gold discovery for IOR IA J414  
Morobe's golden past NW J425  
Terramar results confirmed IA J431  
Brazilian gold JV IA J431  
Lady Susan/Bow Belle update IA J431  
Sons of Gwalia plans IA J431  
Nicaragua to improve El Limon IA J432  
S.A. gold output rises IA J432  
Krugrand sales rise IA J432  
New equipment for Santa Clara IA J432  
Bourneux gold mine begins production IA J432  
Mercur gold project, Utah, U.S.A. P M409

## ILMENITE

Brazilian ilmenite IA J131  
**IRON**  
Minpeco charges less for pellets IA J011

Iron ore talks A J011  
A diesel picture NW J020  
DRI units tested in Nigeria IA J026  
Eagle Mountain: permanent closure IA J027  
Lanco orders conveyor beltting IA J028  
Guelba ore for Algeria IA J043  
Sierra Leone iron ore production reactivated P M007  
Cameron to exploit bauxite and Fe ore H M012  
Angolan Fe exports H M013  
Steel plant in Goa? H M017  
Sudan's mineral deposits A M032  
Processing a complex iron-apatite ore on the Kola Peninsula D M082  
Large fall in Mt. Newman output IA J079  
Erie reopening IA J080  
Carajas slows down IA J096  
Brazil postpones iron ore expansion IA J114  
Encouraging signs for steel? NW J125  
Spanish project approval IA J131  
Hiero Peru strike over Grade control at Kovdor iron-apatite ore deposit D M163  
Carajas delay NW J161  
Roche Bay magnetite project Brazil threatens Polish ore IA J146  
Imports IA J146  
New process from Kawasaki Bidding soon for Pakistan project IA J162  
Increase in ore shipments predicted IA J179  
Kazakhstan iron ore mining IA J194  
Further iron ore layoffs IA J195  
Reserve Mining to close IA J211  
Iron ore: discourse or discord? N J221  
Improvements to Transvaal iron ore mine IA J234  
Iron ore price cut for CYRD IA J235  
Angola's iron ore plans NW J246  
European talks for Mifergui-Ilma IA J271  
DRI plant shutdown IA J272  
Hanna agrees to price reductions IA J272  
China-Australia iron ore talks mooted IA J290  
U.S. iron ore consumption IA J291  
Hamerley talks reopen IA J292  
Zinco expansion IA J311  
Brazil's iron ore exports lower IA J312  
Lower iron ore exports in India IA J312  
Export target for Sidor IA J312  
Iron from Cuban nickel waste IA J331  
Iron ore port for Poland Hamerley agreement on iron ore pricing IA J363  
New Zealand: ironssand to steel A M346  
Hamerley cuts rail haulage costs NW J372  
Minercoes Brasileira's postpones expansion IA J399

## LEAD

Excess stocks could depress 1983 prices NW J004  
Encouraging start for base metals S J005  
Recila mine reactivated IA J010  
Lead and zinc steady S J023  
Minerals in San-Zaire IA J026  
Lead-zinc from Western World IA J027  
Supply problems for new Pb-Ag smelter NW J036  
Pine Point concession sought IA J042  
Lead and zinc unsettled S J127  
Elura begins ore production IA J131  
Raise boring at Mount Isa M M152  
Lead and zinc steady S J143  
Ozark closure threat IA J147  
Yugoslavia to increase lead and zinc output IA J163  
Standard Metals acquires smelter IA J163  
Lead and zinc quiet S J175  
Go-ahead for Greek project IA J179  
Yugoslavia's non-ferrous prospects IA J194  
Mt. Isa lead for Asia IA J213  
Lead-zinc in Yunnan IA J233  
Westfield reports on lead-zinc property IA J255  
Work begins on Yugoslav mine IA J256  
Lead and zinc steady S J287  
Problems for lead S J287  
Pb-Zn-Ag in Brazil IA J280  
Sharp fall for lead S J307  
Penarroya to adjust to market IA J311  
Indian smelter plans IA J311  
St. Joe's new lead mine nears completion NW J324  
Lead-zinc plant for Iran IA J330  
Lead and zinc: divergent trends N J353  
No joy for lead IA J363  
India mine opening S J375  
More gloom for lead IA J414  
Hope mining claims development IA J415  
Lead-zinc output down Santa Barbara expansion complete NW J424  
Bolivian lead-silver smelter IA J431

## MAGNESIUM

Magnesium production falls IA J272  
North Korea plans to double output NW J425

## MANGANESE

Zaire reports manganese production drop IA J010  
Manganese in Brazil IA J059  
Pinnis visit Caracas IA J059  
Middleplate halts underground production IA J256  
Middleplate reopening IA J311  
Manganese output: Brazil IA J399

## MERCURY

Idrija to resume mercury output IA J346

## MICA

Indian mica deal IA J164

## MINERAL SANDS

Union ban on mineral sands IA J044

## MOLYBDENUM

Amex molybdenum mines: capacity closure IA J059  
Kitsault to remain closed IA J079  
Placer terminates Ruby Creek mine IA J147  
Amex to acquire molybdenum interests IA J148  
Progress at Questa P M163  
Brenda Mines: full capacity IA J272  
Gloomy forecast from CRU IA J272  
Chinese moly mine on stream IA J290  
Mount Tolman investment sought IA J379

## NICKEL

Excess stocks could depress 1983 prices NW J004  
Sudbury resumes production IA J009  
Maridunne shutdown IA J027  
Port Nickel suspension IA J080  
Hepasa suspension H M012  
Albanian Ni plant H M015  
Nepesa Ni suspended  
Sherritt Gordon plans full capacity IA J079  
Cuban nickel for BSC? IA J080  
Taiwan company in ferronickel IA J080  
MMK deal IA J132  
Nickel prospects improve S J159  
Nickel prices boom S J175  
Nickel: problems remain W J194  
Weak market hits Greenvalle IA J194  
Falconbridge estimates IA J195  
Nickel consumption S J207  
Inco resumes Sudbury operations NW J223  
Summer shutdown for Falconbridge IA J234  
Indonesia considers stake in nickel IA J235  
Demand for Botswana matte poses problems NW J250  
Sharp fall for nickel S J281  
Inco leaner and cleaner NW J284  
Coal conversion to cut costs at Maridunne's nickel refinery IA J346  
Monoc full production soon IA J346  
Shell sells off Windarra nickel IA J380  
Japan to cut imports of nickel IA J399  
E.E.C. imposes 7% duty on Soviet imports NW J424  
Riffel Flats loses nickel supply IA J432

## NIOBIUM

Terro-niobium exports fall NW J374

## OIL

Tar sands agreement IA J026  
World's largest feeder-breaker N J040  
New oil shale project planned NW J054  
Union Oil's Parachute Creek oil shale project P M009  
Grace halts work on coal-oil project IA J078  
Leaded petrol: commission recommendation IA J273  
Canadian project revival? NW J341

## PALLADIUM

Palladium speculation continues S J005

## PHOSPHATE

Over-supply to continue NW J037  
Marathon Lake: further exploration IA J078  
Ontario phosphate discovery NW J090  
Bri Lanka phosphate exploration IA J096  
Christmas Island: phosphate grumbling IA J098  
Rajasthan phosphate IA J130  
Hope fades for Monument mine IA J131  
Brazilian phosphate plant inaugurated IA J311  
Jordan to increase phosphate production IA J211  
Chile to export output NW J280  
Phosphate production on the increase NW J308  
Sra Overtone contract awarded IA J400  
Phosroc and the Third World H J481

## PLATINUM

Platinum: a new market catalyst? N J033  
Lebore pilot plant H M013  
Platinum prospecting in W. Australia IA J310  
Platinum report - few surprises NW J284  
Platinum premium re-established S J307  
Western Platinum increases output IA J346  
New South African platinum mine? NW J373

## POTASH

Unions call for potash inquiry IA J098  
Potash mine for New Brunswick IA J113  
Output from Brazil's first mine planned for 1984 NW J248  
Boost to continuous miners in the Alsace potash mines D M390

## SILICON

Brazilian venture NW J158

## SILVER

Stockpile sales limited IA J010  
Bullion bounces along S J093  
Silver shines S J095  
Brazil doubles silver imports IA J061  
Sunshine Ag mine re-opens H M013  
Silver a leader S J078  
Sunshine returning to full production IA J078  
Clayton mine back in operation IA J114  
Precious metals plummet S J143  
Silver-arsenic find in South Korea IA J178  
Rise in U.S. silver stocks IA J179  
Loan for Peru approved IA J234  
Caution for silver S J387  
Silver supplies also affected IA J331  
Silver - room for caution NW J340  
Rapid advance for silver S J345  
Agreement on silver properties IA J346  
More silver? NW J374  
Sharp fall for silver S J375  
Chief Burgin to resume operations IA J379  
Future of Crescent mine discussed IA J399  
Buchans to re-open IA J414  
Pegasus stockpile silver IA J415

## SULPHUR

Sulphur storage facility for Abu Dhabi IA J357

## TANTALUM

Supply and demand outlook NW J080  
Hamibian tantalite IA J089  
Thaisarco abandons tantalum payment IA J146

## TIN

Thai tin stockpile IA J010  
Tin exports lower IA J010  
Tin royalty proposal IA J038  
Support for tin continues S J039  
Tin price parity sought S J088  
East Kempville plans IA J089  
Drilling continues at Redoubt IA J090  
Shaft damage at South Crofty IA J089  
Offshore drilling for Thai tin H M017  
Tin support continues S J075  
Fall in tin exports IA J080  
Tin support continues S J091  
Malaysian concentrates down IA J097  
Further encouragement for tin S J109  
Cornish plan IA J113

Malaysia stops issuing  
leases IA J115  
Tin canisters along  
Appeal for Botallack P M105  
On stream analysis at Wheal  
Jane A M124  
New record for tin S J143  
Tin advance continues S J159  
Tin lease agreement IA J163  
USM awards contract IA J164  
Tin maintains its strength S J175  
Thai tin output IA J179  
Buffer stock problems for  
Thailand IA J180  
Straits shipments decline IA J180  
New record for tin S J191  
Tin export controls to  
continue S J191  
Peninsular tin output  
Wheal Concord is  
recovered IA J194  
Agreement reached of  
Producers' Association NW J206  
Tin producers reach accord S J207  
Tin recovery contracts for  
U.K. company IA J213  
Pewang tin boost S J228  
Tin concentrates output  
rises IA J234  
Biotic times for tin S J251  
Copper mine to start-up IA J256  
Tin lurches S J287  
Thai tin forecast IA J272  
Bolivia's hard struggle S J281  
Tin settles down S J287  
Tin - USM holds the reins S J342  
Malaysian mine closures  
increase NW J355  
Tin stays put S J359

Tin drifts lower S J375  
Brazil secures higher tin  
price IA J380  
Tin potential in NW IA J398  
Greenbushes schedule IA J398  
Fresh advance for tin S J411  
Tin pact signed S J427  
Tin association formed IA J432

## TITANIUM

New U.K. Ti plant N M012  
U.S. plant expansions NW J393  
Japanese titanium for U.S.7 IA J399

## TUNGSTEN

Go-ahead for Chicote Grande  
Charter gains Spanish mine  
option IA J009  
Tungsten spot sales halted  
Improved demand cheers  
producers IA J098  
Tungsten layoffs IA J433

## URANIUM

No blank cheque for uranium  
mining NW J004  
Gas Bill concludes sales  
agreement IA J011  
Tailpipe denies uranium  
reports IA J027  
CFR buys Dong-Trieu IA J043  
Uranium stake negotiations  
Mexico U reserves IA J044  
U exploration in Guinea N M013  
Temporary respite for

uranium? N J069  
Canadian mines apply for  
uranium licences IA J079  
Uranium for Saskatchewan  
power generation IA J080  
Austrian uranium for  
Switzerland IA J132  
Uranium has extended  
Kongarr negotiations to  
reopen? IA J179  
Blow for Honeymoon project  
Uranium output for 1983 IA J193  
Combined mixer-settler versus  
conventional solvent  
extraction - a cost  
comparison A M202  
No shortage in sight NW J225  
Conoco sells uranium venture  
stake IA J257  
Honeymoon partners seek  
compensation NW J264  
Promising uranium results IA J271  
Niger uranium find IA J290  
Uranium contract for Fluor  
Agnew Lake salvage work over IA J346  
Fluor not awarded uranium  
contract IA J363  
Australia: uncertainties  
grow NW J374  
Collins Bay B approval IA J378  
Baa on uranium to France IA J415  
Mining and processing of  
uranium in U.S.S.R. D M472

## VANADIUM

Chinese vanadium IA J255  
Mustavara still operating IA J346

## ZINC

Encouraging start for base  
metals S J008  
Vielite-Montagne cuts back IA J010  
Clarksville averts shutdown IA J010  
Lead and zinc steady S J023  
Lead-zinc from Western World IA J027  
Higher 1983 zinc ore imports NW J038  
Suddies investment mooted IA J078  
Zinc producer price cut S J091  
Lead and zinc unsettled S J127  
Lead and zinc steady S J143  
Lead and zinc quiet S J175  
Alaska's Red Dog bonanza NW J187  
Yugoslavia's non-ferrous  
prospects IA J194  
Zinc under pressure S J228  
Heath Steele to close mine IA J233  
Fall in Brazil zinc  
consumption forecast IA J234  
Lead and zinc steady S J267  
Zinc consolidates S J307  
Zinc firmer S J327  
Portuocla operating normally IA J331  
Rise in Australian zinc  
exports IA J347  
Lead and zinc: divergent  
trends N J353  
Japanese zinc for China IA J380  
Zinc perks up S J411  
Lead-zinc output down IA J415  
Winston Lake: high zinc  
sales IA J431

## Countries

### ABU DHABI

Sulphur storage facility for  
Abu Dhabi IA J257

### AFGHANISTAN

Mines to reopen in  
Afghanistan? IA J291

### ALBANIA

Albanian Ni plant N M012

### ALGERIA

Algerian contract for  
Camdip IA J043  
Guelbs ore for Algeria IA J048

### ANGOLA

Angolan Fe exports N M013  
Angola's iron ore plans NW J246  
The reorganization of mining  
in Angola A M298

### ARGENTINA

Coal evaluation in Patagonia IA J096

### AUSTRALIA

No blank cheque for uranium NW J004  
Austrian smelter plans IA J009  
Argyle commercial production IA J010  
BHP coal export plan IA J010  
Gencor raises Oakbridge  
stake IA J010  
Pechiney steps up aluminium  
sales IA J011  
Australian mining analysed N J017  
Western Australia: exploration record IA J026  
Owens Valley gold search IA J026  
Tasmanian coal IA J042  
Finlinton lease: significant  
find IA J042  
ACM acquires Big Bell  
Austrian aluminium for  
Shantou IA J043  
Union has on mineral sands  
Microprocessor-controlled  
air particulate monitor M J056  
Austrian International  
Mining & Exploration  
Lubliner, 1983 N J056  
U.K. company appoints  
Australian agents IA J056  
Nepan suspension IA J060  
Nepan B suspended N M015  
By-product Cu plant  
Products Good for Harbour  
Lights N M015  
Parings Au expansion N M015

Weekatharra coal reserves N M015  
Argyle NW J071  
Gold at Pine Creek NW J073  
Harbour Lights encouragement IA J078  
North Argyle reserve  
report IA J078  
Asarco to buy gold prospects IA J078  
Suddies investment mooted IA J078  
Woolley project: Japanese  
withdrawal? IA J078  
Plans for new Collier coal  
mine IA J079  
Oak Creek mining underway IA J079  
Large fall in Mt. Newman  
output IA J079  
Plans to mine Cowarra IA J079  
W.A. plans safety board IA J080  
Monasite on the move again IA J080  
Uncertainty follows election  
call NW J090  
Donnybrook drilling for West  
Holds IA J096  
Gold mill study IA J096  
Tectonic Bore update IA J097  
Wedge bauxite IA J097  
Austrian coal output IA J097  
Weekatharra makes coal  
proposal IA J097  
Tungsten spot sales halted IA J098  
Bucket wheel for Victoria  
coal IA J098  
Drayton struggles with mining  
bba NW J107  
Stuart Shelf assay results IA J113  
Yarrabee cutback IA J114  
Gold mineralisation found in  
W.A. IA J130  
Exploration stake for Swas  
Resources IA J130  
Elura begins ore production IA J131  
Hope hopes for Monument  
Mine IA J131  
Australian uranium for  
Switzerland IA J132  
Down, but not under N M099  
Australian Au find N M106  
Argyle Diamond selling N M106  
First commercial output N M106  
Mt. Rason progress N M107  
Aust. Al smelter plans N M107  
Coal in Western Australia A M110  
Coal in Victoria A M112  
Austrian International  
Mining and Exploration  
Exhibition 1983 A M117  
Raise boring at Mount Isa N M152  
Australian manufacturer's  
mineral processing  
test facilities N M152  
Belmont acquires prospecting  
licences IA J146  
Arratna JV IA J146  
Griffiths Find to start  
producing IA J147  
NSW coal project deferred IA J147  
Mount Martin to re-open IA J148  
Fishman coal terminal  
commissioned IA J148  
Australia looks to Labor N J153  
CBA: Babcock Creek withdrawal IA J162  
Co-operation for Klockner

and CMA IA J164  
Hawke's cabinet surprises NW J173  
Rights issues for Australian  
explorers IA J178  
Hampton-Newmont JV IA J178  
Promising find for  
Pancontinental IA J178  
Wiluna project update IA J178  
Western Australian gold  
venture partners IA J178  
Kongarr negotiations to  
re-open? IA J179  
Ulan coal contract signed IA J180  
1982 mine production  
estimates NW J187  
Blow for Honeymoon project IA J193  
Geophysical review IA J193  
Coal exploitation for Hancock  
and Novasider IA J193  
Weak market hits Greenvale IA J194  
BWE in Bowen Basin P M183  
W. Australian gold prospect N M189  
Weekatharra coal proposals N M189  
Custom mill study N M189  
Tasmanian coal find N M189  
CBA gold project N M189  
New gold horizons N J201  
Platinum prospecting in  
Western Australia IA J210  
Osmond Range JV IA J210  
Gold prospect upgraded IA J210  
Coal producers bite the  
bullet NW J224  
Novel financing arranged for  
BHP's Mega-project NW J234  
Horsebrook Lights operational IA J234  
Mails IA J234  
Long term coal contracts IA J235  
Austrian price reductions IA J235  
Devon gold mine update IA J255  
Harbour Lights: significant  
values IA J255  
Bellevue encouragement IA J256  
Port Pirie work for Dravo IA J257  
Honeymoon partners seek  
compensation NW J264  
Donnybrook encouragement IA J271  
Mount Arthur on hold IA J271  
Bamboo Creek project IA J271  
Western Australia: smelter  
talks with Korea IA J271  
Kidston awaits favourable  
gold price IA J290  
China-Australia iron ore  
talks mooted IA J290  
Significant gold at WA N M271  
Rehab. at Hampton's Mount  
Martin N M271  
Drilling in historic Croydon  
goldfield N M273  
Broad Arrow JV IA J310  
Golden Mile results IA J310  
Oakley shipment ahead of  
schedule IA J312  
Loader loan agreement IA J312  
Promising new Australian  
venture NW J325  
Linden prospect: high grade  
intersections IA J329  
Conjovoy JV reports IA J329  
Southern Ventures:

### BAHRAIN

Guelbs ore for Algeria IA J043  
Alba power fault IA J080  
Gulf Alumina refinery study N M108

### BOLIVIA

Go-ahead for Chicote Grande IA J009  
Supply problems for new  
Pb-Ag smelter NW J036  
Union plan for Bolivian  
government IA J164  
Bolivia's hard struggle N J281  
Bolivian strikers occupy  
mine IA J292  
Bolivia's mining strategy NW J356  
Bolivia offer for tin IA J363  
Bolivian lead-silver smelter IA J431



## BOTSWANA

Botswana's coal output hopes NW J003  
Botswana coal study H M013  
Botswana power plant H M013  
Demand for Botswana matte  
posse problems NW J250  
Kiffler Flats loses nickel  
supply IA J432

## BRAZIL

Brazilian fertilizer plant IA J027  
Non-ferrous trade surplus  
predicted for 1983 NW J052  
Manganese in Brazil IA J059  
Soviets visit Carajas IA J059  
Fluorite visit Carajas IA J059  
Brazil doubles silver  
imports IA J061  
Trombetas bauxite A M018  
Albras smelter progress NW J071  
Carajas slows down IA J096  
Brazil postpones iron ore  
expansion IA J114  
Non-ferrous trade surplus  
ahead? NW J124  
CPM expands overseas  
services IA J130  
Brazilian ilmenite IA J131  
New mineral service IA J132  
Carajas delay NW J141  
Bandits attack Canam project IA J146  
Brazil threatens Polish ore  
imports IA J146  
Brazilian venture NW J158  
Brazilian ilmenite IA J163  
Brazil brakes hard N J169  
Brazil and U.S.S.R. in  
bauxite IA J194  
Carajas: slow development in  
1983 H M189  
Brazilian phosphate plant  
inaugurated IA J211  
Fall in Brazil zinc  
consumption forecast IA J234  
Output from Brazil's first  
mine planned for 1984 NW J248  
Pb-Zn-Ag in Brazil IA J290  
Carajas: postponed at least  
a year H M271  
Brazilian ilmenite prospect  
Brazil's iron ore exports  
lower IA J312  
Doege feels the pinch NW J342  
Phosphate production on the  
increase NW J358  
Brazil and Romania in iron  
ore/coal talks IA J364  
Historic Brazilian mining  
company looks ahead P M339  
Goiasfertil phosphate plant H M343  
Ferro-niobium exports fall  
Brazil secures higher tin  
price IA J380  
Manganese output: Brazil IA J399  
Brazilian gold JV IA J431  
Codemia boost IA J432  
Brazil/Japan deal H M413  
BP invests in Brazil H M413  
Lead/zinc/silver finds  
confirmed in Brazil H M413

## BULGARIA

New copper mine for Bulgaria IA J194

## CAMEROON

Cameroon to exploit bauxite  
and Fe ore H M012

## CANADA

Sudbury resumes production IA J009  
Drill core library IA J010  
Norcon delay in buying  
Labrador stake IA J011  
Shareholder approval for  
merger IA J011  
PUK deal IA J028  
Quintette financing secured  
Esso plans Byron Creek  
output IA J027  
Cominco seeks union  
concessions IA J028  
British Columbia's Northeast  
Coal Project well  
advanced NW J036  
World's largest feeder-  
breaker H J040  
Windy Crag prospect IA J042  
Lake Zone start up IA J042  
Pine Point concession sought  
Cullinan Lake: commercial  
production IA J043  
Hopes for Becasour smelter  
Uranium stake negotiations IA J044  
Ontario gold rush NW J053  
East Kemptville plans IA J059  
Canadian gold sale IA J061  
Wideton Lake resists  
Wilroy on schedule H M015  
Steep Rock confirms vein  
system IA J078  
Highwood plans Bugov survey IA J078  
Martinson Lake: further  
exploration IA J078  
Soques drilling IA J078  
Salmita plans IA J078  
Kutcho study IA J079  
Flin Flon to build mill IA J079

Kitsault to remain closed  
Canadian mines apply for  
uranium licences IA J079  
Uranium for Saskatchewan  
power generation IA J080  
Noranda first off the mark  
at Hemlo? NW J089  
Ontario phosphate discovery NW J090  
Hemlo drill results IA J096  
Anacosta retains option IA J096  
Waddy Lake drilling IA J096  
Pine Point loan rejected IA J097  
Fording River: July shutdown  
Quebec to dissolve James Bay  
Golden Rose gold prospect IA J113  
Ontario drilling near Detour  
Lake IA J113  
Potash mine for New  
Brunswick IA J113  
Mining jobs IA J114  
Quinnan concern voiced IA J115  
Big fall in mined metal  
value NW J125  
Hemlo claims dispute IA J130  
More ore on Vancouver Island IA J130  
Gold stake for Union Carbide IA J130  
Shandown drilling IA J130  
New Pascalis: further  
encouragement IA J130  
PCS calls back workers IA J131  
Cominco proposal rejected IA J132  
Quintette orders computer  
system IA J132  
Remote NW Territories gold  
mine P M105  
Canadian Al smelter study H M107  
Newfoundland Cu-Zn-Ag finds  
Custom Au milling service H M107  
Noranda continues Hemlo  
drilling IA J146  
D'Ore Val drill results IA J146  
Boche Bay magnesite project  
Golfair acquires mining  
claims IA J146  
Mascof Gold Mines: recent  
drilling IA J146  
Sturgeon Lake claims for  
Gossan IA J146  
Medina programs proposed  
Redstone buys out Shell  
state IA J147  
Placer terminates Ruby  
Creek option IA J147  
McLeod River is granted  
permit IA J147  
Lupin mine expansion IA J147  
Fairbridge tentative pact  
New Pascalis further results  
Pryme target IA J162  
Goliath ore extended IA J162  
Companies raise Hemlo stakes  
Dumagami mill plan IA J162  
Lac to mine Lake Shore ore  
San Antonio reserves running  
down IA J163  
Canadians face Bukit Asam  
threat IA J163  
Inland Mining acquires  
claims IA J178  
Lake Dufault resumption IA J179  
Canada to sell reserve gold  
Macassa shaft contract IA J180  
Wedge Lake progress IA J193  
Lac-Horanda dispute IA J193  
Agassiz ore reserves IA J193  
Dore drilling in Ontario  
Gordon Lake drill report  
Sudbury to extend Renabie  
milling unit IA J194  
Westmin expansion approval IA J194  
Sudbury's new Science Centre P M181  
Suncor orders oilfields  
overhauls IA J195  
Excitement at Hemlo P M181  
Sudbury's new Science Centre P M185  
Two Canadian uranium  
operating licences H M191  
O.K. copper funds H M191  
Doubled output for Byron  
Creek H M191  
B.C. Cu-Co find H M191  
Lake Zone copper mine opens  
East Kemptville tin  
prospects H M191  
Promoting mining equipment  
manufacture in Canada H M239  
Silbik stake for Westmin IA J210  
Lamela project to go ahead  
Inco to develop McBean mine  
Inco resumes Sudbury  
operations NW J223  
Picking up the pieces NW J223  
Cantung suspension IA J234  
Grant for dolomite producer IA J235  
Sioux Lookout: better grades IA J255  
Update on Shebadowan  
property IA J255  
Quebec copper venture IA J255  
Gold property programs for  
new company IA J255  
Quebec holds smelter talks  
with VAN IA J256  
Carolin mill suspension IA J256  
Kidd Creek plans reversed  
More drilling at Winston  
Lake IA J271  
Promising uranium results  
Work on Kiena mill IA J271  
Ladner Creek back in action  
Westmin to expand operations  
Market to determine mine  
reopening IA J272  
Further price cut for coal  
Inco leaner and cleaner NW J284  
McBean reserves IA J290  
Westfield plans for Scadding  
Lake IA J290  
Westrob operations halted IA J290

Sherritt: Gordon decision on  
Fox Lake IA J290  
Govt. assistance for Cyprus  
Avril IA J291  
Madeline Mines away song  
Key Lake awards piping  
contract IA J291  
Orders for B.C. coal IA J291  
Good prospects at New  
Pascalis H M273  
New Ontario gold prospect? H M273  
Copper Band and Portage  
mines A M274  
Exploration boost NW J303  
Noranda details Hemlo  
expenditure IA J310  
Further acquisition for  
Island Mining IA J310  
Thompson pit decision IA J310  
Goldquest plans for Abino  
deposit IA J311  
Kitimat workers reject offer  
Lac reports on Williams  
property IA J329  
Afton Mine to return to  
production IA J330  
Lower Grades at Kerr Addison  
Canadian project revival? IA J345  
Westfield starts Hemlo work  
Drilling on Bay Smith  
Occurrence IA J345  
Agnew Lake salvage work over  
Mill in Muscoche IA J346  
Coal mine approval for  
Merco Minerals IA J346  
Cyprus Avil revivie IA J346  
Brunswick takes up Mine Mile  
option IA J362  
McBean gets go-ahead  
Vall mines officially  
opened IA J363  
Pine Point reopening  
Noranda and Codeco in  
technology agreement IA J363  
Bullmoose coal - a major  
undertaking P M337  
Go-ahead for Westmin mine  
Yellowknife start up H M343  
Westfield to explore Hemlo  
territory H M343  
Scadding gold property to be  
worked by Westfield H M345  
Alumina smelter for Quebec? H M345  
Job creation scheme at  
McBean mine H M345  
Asarco to resume Newfoundland  
operations IA J379  
Quebec introduces smelter  
bill IA J391  
Hemlo production schedule  
Ontario exploration for  
Hollinger IA J398  
Detour Lake on schedule IA J400  
Silo repair IA J400  
Kitimat talks underway  
Trading in shares suspended  
copper deposit, IA J414  
Govt. grants for Quebec  
miners IA J414  
Buchans to re-open  
Pine Point to resume  
operations IA J414  
Tech reopens Afton  
Coal price decreases  
reinstated IA J416  
Half-Mile Lake IA J431  
Coppermine River project not  
economic IA J431  
Yellowknife strike threat  
More Hemlo gold reserves  
Development resume at  
Nasibito mine H M414  
Gold find at Red Lake  
Canada to aid Cyprus Avil  
mines H M414

## CHILE

Record year for Chilean  
copper IA J027  
La Escondida reserve  
estimate IA J042  
Chile's buoyant mining  
sector H J049  
El Teniente's new crusher  
Chile suspends tender for  
Andacollo P M102  
Loan for Chilean Cu Company  
More details on Escondida  
copper deposit, IA J106  
southern Chile P M181  
Copper project awaits price  
rise IA J256  
Chilean engineering contract  
Codeco acquires stake in  
French company IA J257  
Delcor awarded Chilean  
export order IA J272  
Copper strike called in  
Chile IA J292  
Chile: Codeco maintains  
strategy NW J324  
Anacosta completes Palambres  
drilling IA J329  
Copper workers suspend  
strike call IA J331  
Chile's financial problems  
H J337  
Chilean union leaders face  
prosecution IA J346  
Delcor awarded Chilean  
export order IA J380  
Weather affects Chuquibambilla  
Copper strike spreads NW J424  
Codeco-Chile's capital  
project plans P M409

Possible decision on Cerro  
Colorado H M413

## CHINA

Record coal production from  
China IA J009  
PMB Westcoast co-operates  
in China IA J027  
China proposes aluminium  
project IA J079  
Sales accord for Zaire and  
China IA J080  
Gold find in Shandong  
Go-ahead for Chinese coal  
mines IA J113  
Chinese Ag find H M109  
Inner Mongolia coal  
China rail network H M109  
China places order with  
Anderson Strathclyde  
Chinese mineral prospects H M189  
Chinese gold find H M189  
Possible Chinese aluminium  
project H M191  
Lead zinc in Yunnan IA J233  
China investment plans  
Japan sells copper to China  
China's respraisal IA J235  
China to export output NW J250  
Chinese vanadium IA J255  
China-Japan talks flounder  
Chrome trade for China and  
Turkey IA J287  
Jungar coal plans IA J271  
Chinese purchases continue  
to buoy copper S J287  
China-Australia iron ore  
talks resumed IA J290  
Chinese moly mine on stream  
soon IA J290  
Gold output to increase  
New Chinese coal deposit  
Japanese copper for China IA J347  
Alcan confirms sale to China  
Barytes mill for China IA J347  
Nasibito Stage II H M345  
Chinese vanadium find H M345  
Japanese zinc for China  
Coal technology exchange IA J415  
China's first coal  
liquefaction unit H M414  
Panji No. 1 coal mine H M414

## COLOMBIA

El Cerrito order IA J010  
Gold veins in Colombia IA J290  
Ruesne and Nagel wins order  
Gold veins find in Colombia  
unconfirmed H M413

## COSTA RICA

New equipment for Santa  
Clara IA J433

## CUBA

Cuban nickel for BOC? IA J080  
Iron from Cuban nickel waste IA J331

## CZECHOSLOVAKIA

Czechoslovak coal boost IA J061  
Czech coal finds H M187  
Hungarian/Czechoslovak coal  
JV IA J211  
Czechs to explore gold  
prospects IA J233  
Czech mercury ores H M342  
Czech gold news H M342  
Plans for reclamation H M342  
Czech mining equipment H M380

## DOMINICAN REPUBLIC

Rosario in production IA J179

## EGYPT

Plans to reopen Egyptian  
gold mines IA J272  
Geophysical equipment for  
Egypt IA J312

## EIRE

Government aid for  
anthracite mine NW J142  
Open pit barytes mining at  
Ballinacree IA M194  
Industrial diamond plant in  
Ireland IA J272  
Falklands peak to be  
investigated IA J379

## FALKLAND ISLANDS

Falklands peak to be  
investigated IA J379

## FINLAND

Finnish mine closes IA J010  
Fluorite visit Carajas  
Exploration in depth NW J189  
Mustavara still operating IA J346

## FRANCE

Vieille-Montagne cuts back	IA	J010
Hopes for Becanour smelter	IA	J043
CPY buys Dog-Trieu	IA	J043
Softens belts cobalt operations	IA	J097
Workers end Largestiere occupation	IA	J195
French gold mine to get Fr238 million boost	IA	J234
Nuclear agreement for France and India	IA	J292
Use of continuous miners in the Alsace potash mines	D	M320
Investment for French gold producer	IA	J345
Investments for French gold mine	H	M342
Ban on uranium in France	IA	J415
Boursin gold mine begins production	IA	J432
French award three exploration permits	H	M413

## GABON

Gabon work for Bechtel	IA	J271
------------------------	----	------

## GERMANY (WEST)

Dreadner sells Metallgesellschaft stake	IA	J010
Further attempts to keep smelter open	IA	J098
Repairing mining subsidence damage	H	M241
Investigation on drilling blast and roof bolt holes	D	M348
Optimism for recovery	IA	J285
Inco in talks with VDM	IA	J312
Shiplading equipment	IA	J347

## GHANA

Aluminum: Ghana seeks revision of Valco agreement	NW	J019
Boysay refurbishment	IA	J113
Cutback for Valco	IA	J291
Valco to pay increased rates	IA	J381
Valco talks break up	IA	J381
Kaiser to close Ghana potlines	IA	J399
Valco to pay increased rates	H	M414

## GREECE

Greek smelter talks underway	IA	J097
Greek mineral developments	H	J105
Go-ahead for Greek project	IA	J179
Greek bauxite mine contemplates expansion	NW	J204
New mineral proposals	NW	J305
Ferrochrome smelter inaugurated	IA	J311
Letter of intent for Greece and U.S.S.R.	IA	J311
Excavators for Greek lignite mine	IA	J312
Greek lignite mines to be modernized	IA	J379
Greek lignite production to rise	IA	J432

## GUINEA

Billiton buys Halco stake	IA	J027
U exploration in Guinea	H	M013
European talks for Miferguil mine	IA	J271

## GUINEA-BISSAU

Mineral plans for Guinea-Bissau	IA	J059
---------------------------------	----	------

## GUYANA

Alumina plant remains closed	IA	J061
Guyana management changes suggested	H	M189
Guyana bauxite strike	IA	J331
Union officials arrested	IA	J363
Bauxite strike continues	IA	J433

## HUNGARY

Bauxite mine starts up	IA	J060
Bito-2 onstream	IA	J114
New Hungarian bauxite mine	H	M187
Hungarian/Czechoslovak coal JV	IA	J211
Mine disasters	IA	J433

## INDIA

Soviet assistance for Indian coal mines	IA	J043
Alumina project discussions	IA	J061
Indian coal miners strike	IA	J063
Steel plant in Goa?	H	M017
Indian Au find	H	M017
New Indian Cu prospect	H	M017
Coal stockpile for SAIL	IA	J098
Alumina or aluminium?	NW	J108

Rajasthan phosphate	IA	J130
Crushers for Malankhand	IA	J132
Indian Sa finds	H	M109
Indian gold find	IA	J162
Charia coal plant	IA	J163
Indian mica deal	IA	J164
Potential boost for Indian aluminium	H	M189
Indian alumina plant talks with U.S.S.R.	H	M189
Indian coal target	IA	J272
Nuclear agreement for France and India	IA	J292
New Indian gold finds	H	M273
Indian smelter plans	IA	J311
Copper output is to increase	IA	J311
Lower iron ore exports in India	IA	J312
Soviet boost for Orissa	IA	J331
Indian mine opening	IA	J363
India's first commercial sponge iron plant	H	M345
Indian bauxite find	H	M345
Base metal finds in Udaipur	H	M345
India to import copper	IA	J399
India to join Bauxite Association	IA	J415
Indian zinc/lead smelter proposal	H	M414

## INDONESIA

Senaka coal project	IA	J042
W.B. loan for Indonesian coal-fired power stations	H	M109
Canadians face Bukit Asam threat	IA	J163
Contract for lignite mine	IA	J164
Contract for Indonesian lignite project	IA	J213
Indonesia considers stake in nickel	IA	J235
Inco unit stake offered	IA	J292
Berau coal JV	IA	J312
Sitaka plant shelved?	IA	J330
Indonesian gold prospect	IA	J398
Indonesian coal project	H	M414

## IRAN

Sar Cheshmeh plans to expand	H	M017
Iran to develop gold mines	IA	J131
Sar Cheshmeh target	IA	J179
Iranian lead/zinc plant	H	M271
Aluminum factory in Iran	H	M271
Iranian copper plans	IA	J311
Lead-zinc plant for Iran	IA	J330
Sar Cheshmeh copper	H	M345
Iranian lead/zinc plant	H	M415
Iran plans subsidiary copper industry	H	M415

## IRAQ

Nordberg supplies plants	IA	J148
--------------------------	----	------

## ISRAEL

Boost to Israeli potash industry	IA	J291
----------------------------------	----	------

## ITALY

Govt. grant aid for Al in Italy	H	M107
Pertuola operating normally	IA	J331

## JAMAICA

Barter agreements	NW	J003
Alport grievance	IA	J114
Jamaican bauxite sales	IA	J273
Mine redundancies in Jamaica	IA	J346
U.S. to buy more Jamaican bauxite	IA	J381

## JAPAN

Japanese stockpiling	IA	J010
Japan buys less gold	IA	J011
Iron ore talks	IA	J011
Japanese Al predictions	IA	J027
Plans for Hokkaido refinery	IA	J027
Higher 1983 zinc ore imports	NW	J038
Philippines seeks Japanese help	IA	J061
Private Japanese metal stockpile	H	M017
Japan's record copper output	IA	J079
Japan considers Philippines request	IA	J098
Japan seeks coal concessions	IA	J114
Japan drives down coal prices	NW	J126
Japan imports less gold	IA	J132
Japanese Su-W find	H	M109
Japan at a turning point?	H	J138
New process from Kawasaki	NW	J157
Japan to pay less for S.A. coal	IA	J163
Japanese copper imports	IA	J164
Japanese consider more shipments to Aconado	IA	J195
Fall in Japanese gold imports	IA	J195
Japan sells copper to China	IA	J235
Japan halts McIntyre coal imports	IA	J257
China-Japan talks flounder	IA	J257

Japanese gold imports up	IA	J257
Japanese smelters reduce output	NW	J286
Liquid coal for Kawasaki	IA	J273
Change of direction in bilateral cooperation	NW	J286
Fall in Japanese aluminium output	IA	J311
Japanese copper for China	IA	J347
Japanese gold imports down	IA	J363
New boron fibre production process	H	M345
Japanese zinc for China	IA	J380
Japanese withdraw from Bahrain consortium	IA	J381
Now Down tackles Euroko	NW	J392
Japanese titanium for U.S.?	IA	J399
Japan to cut imports of nickel	IA	J399

## JORDAN

Jordan to increase phosphate production	IA	J211
Jordan contract for Brown Boveri-Werke	IA	J364
Jordan phosphate production	H	M345

## KOREA (NORTH)

North Korea plans to double output	NW	J425
------------------------------------	----	------

## KOREA (SOUTH)

South Korea to export more gold	IA	J080
South Korea plans new port	IA	J113
Silver-arsenic find in South	IA	J178
Western Australia: smelter talks with Korea	IA	J271
S. Korean silver find	H	M273
World Bank loan for Korea	IA	J364
Korean involvement in Cook Colliery	IA	J380

## KUWAIT

Mineral lease ruling	IA	J180
----------------------	----	------

## LIBERIA

Lamco orders conveyor	IA	J028
Beltting	IA	J213
Apron feeder for Liberia	IA	J213

## MADAGASCAR

Madagascar: bauxite potential	IA	J310
-------------------------------	----	------

## MALAYSIA

Tin exports lower	IA	J010
Fall in tin exports	IA	J080
Coal sale for Malaysia	IA	J080
Malaysian concentrates down	IA	J097
Malaysia stops issuing leases	IA	J115
MMC seeks copper in Pahang	IA	J130
Copper study planned	IA	J147
Tin lease agreement	IA	J163
Straits shippers decline	IA	J180
Peninsular tin output	IA	J194
Tin concentrates output rises	IA	J234
Malaysian mine closures increase	NW	J358

## MAURITANIA

Iron ore talks	IA	J011
Guelbs ore for Algeria	IA	J043

## MEXICO

Mexican U reserves	H	M012
Japanese finance La Caridad	H	M012
Mexican Cu project suspended	IA	J131
A question of aid	NW	J141
Sonora copper schedule	H	M271
Santa Barbara expansion complete	NW	J424

## MOROCCO

Moroccan smelter study	IA	J042
Conveying and stacking equipment ordered	IA	J380

## NAMIBIA

Namibian tantalite	IA	J059
Lacor reduces transport costs	IA	J416

## NETHERLANDS

Billiton buys Halco stake	IA	J027
Dutch consider Syngas	H	M342
sewidy	H	M342

## NEW ZEALAND

New Zealand orders German equipment	IA	J292
-------------------------------------	----	------

New coal prospects in New Zealand	IA	J329
Martha Hill gets underway	IA	J362
New Zealand: ironssand to steel	A	M346
N.Z. Steel orders OMK bucket wheels	IA	J380
Coal prospects in New Zealand	H	M415

## NICARAGUA

Nicaragua to improve El Limon	IA	J432
-------------------------------	----	------

## NIGER

Niger uranium find	IA	J290
Uranium find in Niger confirmed	H	M414

## NIGERIA

DBI units tested in Nigeria	IA	J036
Lurgi's reduction plants successfully commissioned	IA	J379

## NORWAY

Norwegian viewpoint	NW	J037
Progress at Farway smelter	IA	J080
DBI plant shutdown	IA	J272
Sulitjelma: no takers	IA	J433

## OMAN

Start-up at Oman's Sohar project	NW	J124
Copper is mined once again in Oman	P	M267

## PACIFIC ISLANDS

Ok Tedi strike	IA	J028
Ok Tedi strike over	IA	J044
Porgera update	IA	J059
PNG find for BHP	IA	J059
Less metal at Bougainville	IA	J080
Drought disrupts Ok Tedi	H	M015
Christmas Island: phosphate grumbling	IA	J098
Report on Porgera venture	IA	J193
Emperor, WMC sign Fiji pact	IA	J233
SLB cutbacks	IA	J362
Fiji mining deal	H	M343
Morobe's golden past	NW	J425

## PAKISTAN

Saindak financing	IA	J009
Canada/Pakistan Cu study possible	H	M019
Bidding soon for Pakistan project	IA	J162
Lakhs lignite project planned	NW	J172
Pakistan's \$9 billion mineral plan	H	M191
Coal survey for Pakistan	IA	J329
Saindak project approved	IA	J330
Pakistan plans major coal development	NW	J357
Saindak project approved	H	M414
W.B. loan for Pakistan survey	H	M414

## PANAMA

Cerro Colorado shelved	IA	J042
------------------------	----	------

## PARAGUAY

Paraguay smelter talks continue	IA	J026
---------------------------------	----	------

## PERU

Barter agreements	NW	J003
Minspec charges less for pellets	IA	J011
SPCC pay dispute	IA	J028
SPCC strike illegal	IA	J044
Minspec forces majeure	IA	J063
Mineral export earnings to rise	NW	J090
Hierro Peru strike over	IA	J131
Centromin strikes	IA	J132
Truck/Cu ore swap	H	M106
Cerro Verde II suspended	IA	J147
Centromin pay offer rejected	IA	J148
Force majeure declared	IA	J148
Centromin strike over	IA	J164
Minero Peru strike ends	IA	J195
Loan for Peru approved	IA	J234
Harbours to sell metals for Peru	IA	J235
Japanese financing for Minero Peru	IA	J310
Bismuth supplies interrupted	IA	J331
Silver supplies also affected	IA	J331
SPCC strike threat	IA	J363
W.B. loan for Peruvian silver project	H	M342
More silver?	NW	J374
Peru: copper target	IA	J415
Peruvian miners threaten strike action	IA	J416

Marinduque shutdown	IA	J009
Quintar to survey		
Philippines	IA	J042
Copper shelday extended	IA	J043
Philippines seeks Japanese		
help	IA	J061
Swelco plans shelled		
Philippines Cu smelter	H	M017
progress		
Use of metal detectors on		
gold mine	A	M037
Japan considers Philippines		
request	IA	J098
Discusses smelter charges	MF	I108
Besugut modernization plan	IA	J130
Philippines interest for		
Basuco	IA	J146
Copper-gold-silver project		
delayed	IA	J178
New investment move angers		
copper producers	MF	I188
Philippines Cu mine for 1985	H	M189
200,000 tons of copper expands		
Copper loan talks fail	IA	J257
Passer smelter: producer tax		
threatened	IA	J273
Philippines: Balex		
expansion	MF	J284
Drought threatens North		
Cebu mine	IA	J291
Copper project for Asean		
companies	IA	J330
Work on coal collapse	IA	J331
Nonoc full production soon	IA	J346
Companies bid for Philippine		
200,000 tons of copper contracts	IA	J364
North Davao hit by power		
shortage	IA	M15
ASEAN firms form copper		
substitution unit	H	M418

Polish copper plans	IA	J043
Brazil threatens Polish ore imports	IA	J148
Poland copper ore output	IA	J256
Iron ore port for Poland	IA	J345
Rise in Polish coal exports	IA	J433

Mineral plans for Guinea-	
Bissau	IA J059
Panasqueira shutdown	IA J381

New coal mines for Romania	IA	J211
Brazil and Romania in iron ore/coal talks	IA	J364

Saudi coal	IA	J042
More than oil in Saudi Arabia	N	J121
Companies line-up for Saudi gold project	H	M271
Mahd adh Dhahab officially reopened	IA	J310
Lurgi's reduction plants successfully commissioned	IA	J379
Reopened Saudi gold mine	H	M114

Sierra Leone iron ore  
production reactivated P M007

Indexing and performance	NW	J019
Platinum: a new market		
category?	IA	J053
Sales of diamonds	IA	J060
Recort at Sasol quarry		
Lebowa pilot plant	IA	M080
South Africa: new exchange		
controls for non-		
residents	NW	J089
South African-designed		
cutting head breaks		
record	N	J093
FS Godel sinking schedule		
Incor trial mine	IA	J096
Krugersand sales rise	IA	J098
Chrome producers feel		
unease	NW	J108
Kloof drilling	IA	J113
S.A. gold output	IA	J114
Minerals at Anglo	IA	J115
Better export prospects	NW	J140
Coal handling facility for		
Japan	IA	J148
New plant for Ergo	NW	J157
Japan to pay less for S.A.		
coal	IA	J163
Gold output rise in S.A.	IA	J179
Cons. Modderfontein to		
expand	IA	J179
Leslie production affected		
by accident	IA	J180
South Africa's exports increase	IA	J194
Trial Transvaal coal mine	N	M187
Notable drilling achievement		
in S.A.	N	J222

ESOC delays power stations	IA	J211
PSC moves through trolley	IA	J211
State aid changes	MW	J225
Improvements to Transvaal	IA	J234
mine over mine		
Middleplatts halts	IA	J256
underground production		
Boisa accident	IA	J256
Kloof accident	IA	J256
Fochville gold project	IA	J280
Krugersrand sales up	IA	J291
Coal sampling systems		
ordered	IA	J292
Rise in S.A. gold output	IA	J311
Middleplatts reopening	IA	J311
Wage agreement for S.A.		
miners	IA	J311
Depressed markets close		
Littleall	IA	J330
Drought could curb coal and		
gold output	MW	J340
Western platinum increases		
output	IA	J346
April gold	IA	J346
Palabora's vermiculite plans	IA	J347
Delors' commission		
horizontal belt filter	IA	J347
Fall in April Krugersrand		
output	IA	J347
New area for Randfontein	IA	J362
President Brand accident	IA	J362
Thabazimbi spirals	M	N342
New South African platinum		
mine?	MW	J372
Mining records broken	IA	J379
South Africa to buy host		
Black worker representation	IA	J400
Methane explosion at Harmony	IA	J415
South Africa's 30%		
increase in output	IA	J416
S.A. gold output rises	IA	J432
Krugersrand sales rise	IA	J432
Elaborate sales to Inco		
halted	IA	J433
Pay rise for black miners	IA	J433
Britishain acid	IA	J438
Continuous miner breaks		
world record	M	M466

Charter gains Spanish mine option	IA	J027
Hunosa raises output	IA	J097
Spanish project approval	IA	J131
Spanish miners strike	IA	J180
Aznalcollar to re-open?	IA	J211
New light on mining's ancient history	A	M372

Sri Lankan phosphate exploration	IA	J096
Sri Lankan phosphate venture	H	M189

Sudan's mineral desosits	A	M031
Sudanese gold interest for Robertson Research	IA	J146

Surinam stoppage over	IA	J010
Surinam's problems	MW	J265

Volvo BM buys Kockum	
Landsverk	IA J028
Viscaria shipments underway	IA J043
Order for Volvo machines	IA J061
Grant for Swedish mining	IA J115
Sweden: Viscaria copper on schedule	MW J172
Rejuvenation for Swedish mines	H M187

Australian uranium for  
Switzerland

IA J132

Taipower denies uranium reports	IA	J027
Taiwan to sell smelter	IA	J043
Taiwan company in ferronickel talks	IA	J080
Copper smelter sale considered	IA	J164
Taiwan seeks foreign partner for Al plant	H	W273

Tanzanian coal plans	H	M013
Tanzania: mineral ruling	IA	J312
Tanzanian minerals exploration	H	M414

Thai tin stockpile	IA	J010
Tin royalty proposal	IA	J026
Offshore cutback expected	IA	J026
Offshore drilling for Thai		
<u>gas</u>	H	M017
Thai tin output	IA	J179
Buffer stock problems for		
Thailand	IA	J180
Thai tin forecast	IA	J272

Tunis phosphate project	H	M342
Sra Ouertane contract awarded	IA	J400

Cayeli drill results	H	M012
Turkish work for Boliden	IA	J096
Turkish mine disaster	IA	J164
Chrome trade for China and Turkey	IA	J257
Turkish mine accident	IA	J257

Progress on some fronts	MW	J325
Uganda orders Halco rig	IA	J346

Coal demands falls	NW	J042
NCB colliery investment	IA	J020
U.K. export sinking record	IA	J042
Export order for Nordberg	IA	J043
U.K. - offshore coal exploration	NW	J052
U.K. company appoints Australian agents	N	J056
Drilling continues at Redmoor	IA	J059
Shelf damage at South Crofty	IA	J060
New U.K. Ti plant	N	M012
Power transmission equipment	N	M070
Lighting for Selby	IA	M080
Fairwood sells out	IA	J098
Stockpile moves	NW	J107

ECC	IA	J132
BSC denial	IA	J132
Appeal for Botallack	F	M105
On stream analysis at Wheel Jame	A	M124
British Coal International	A	M133
U.K. coal strike threat	IA	J148
Britain allocates stockpile budget	IA	J148
Equipment for Selby	IA	J180

U.A. strategic stockpile	H	M187
Exploration plans at Wheal Jane	H	M187
NCB places order with Walton & Co.	IA	J213
Repairs completed at South Crofty	IA	J234
Equipment groups merge	IA	J257
Rotary kiln ordered	IA	J273

recommendation	IA	J273
Planning problems	MW	J285
Technology promotion	IA	J299
PREPTEC 83	A	M305
Effective method for sealing off old mine shafts	M	M311
Good and bad for Coal Board	MW	J304
Work on Welsh gold mine	IA	J310
Welsh investment for NCB	IA	J310
Marketing agreement for		

New unit for Bobcat	IA	J389
Mining records broken	IA	J379
Jacita expansion	IA	J368
Futures market considers proposals	IA	J399
Golden jubilee for CDA	NW	J409
Daw Mill drift opened	IA	J432
Dobson Park acquires stake in computer company	IA	J433
Coal handling facility for Tyndeside	IA	J433
£12 million for Welsh coal	"	N443

Progress at Selby: 1 -		
Overall project concept,	A	M416
drifts and mine		
Progress at Selby: 2 -		
Conveyor systems in the		
North and South Drifts	A	M425
Progress at Selby: 3 -		
Gascoigne Wood		
facilities	A	M433
ARMEC '83 International		
Conference on Mines		
Transport and Exhibition		
of related British		
equipment	A	M439

Upper Volta: gold plans IA J096  
Golden hopes for Upper Volta H M187

The year ahead	N	J001
Anascondito to investigate Idaho claims	IA	J001
Colony's delight ahead of schedule	IA	J008
Expansion for Smoky Valley	IA	J010
U.S. declines pet	IA	J010
Helia Mine reactivated	IA	J010
Clarkville averts shutdown	IA	J010
Stockpile sales limited	IA	J010
Alaska to sell Bowers stake	IA	J010
Gas Hills concludes sales agreement	IA	J011
Hedra acquires Holmes and Narver	IA	J011
Contract for Armo	IA	J011
Superior declines outlook	IA	J011
Montana Tunsela joy	IA	J026
Tar sands agreement	IA	J026
U.S. declines pet	IA	J026
Butte suspension at mid-year	IA	J026
U.S. copper output up	IA	J026
Eagle Mountain: permanent closure	IA	J027
Coal closures	IA	J027
Port Pichel suspension	IA	J027
U.S. declines pet	IA	J027
Raymond affiliate to design coal terminal	IA	J028
Harley Neck abandoned	IA	J028
Anascondito: Twiss reactivates suspension	IA	J042
Potline completion for Montana	IA	J043
Minneapolis applications to be rejected	IA	J043
Closing prospects for coal	NW	J053
New oil shale project planned	NW	J056
Work of Rex Petro gold prospect	IA	J056
Amak polybromine mines	IA	J056
Indefinite closure	IA	J056
Good Sunlight processing ore	IA	J056
Alumas defers plans	IA	J060
UIC acquires Delaware mine	IA	J060
Gold mine opens for	IA	J061
Industries	IA	J061
InterNorth joins Energy Transmission	IA	J063
First coal through new terminal	IA	J063
Union to buy Parachute Creek oil shale project	P	N006
Alaska's energy and mineral resources	P	N011
Sunshine Ag mine reopens	P	N013
U.S. Au and Cu finds	P	N013
Virginia coal terminal	P	N013
Montana mining	A	N013
Lacana finds more gold in Nevada	NW	J071
Grace halts work on coal-oil	IA	J078
Chalmers curtailment	IA	J078
Sunshine returning to full production	IA	J078
Jerritt Canyon's first year	IA	J078
Eric reopening	IA	J080
Pickman: Mother to act as agent	IA	J080
Card Bird sale postponed	IA	J080
Alaskan coal contract	IA	J080
Burns mine divestitures ahead?	N	J085
Utah coal closures	IA	J087
North Canyon on schedule	IA	J113
Clayton mine back in operation	IA	J114
NEER acquires Osymia	IA	J114
Exxon confirms plans	IA	J130
Ajo back in action	IA	J131
Montana Au find	IA	M107
Hedra mine reactivated	N	M107
Pressure filtration at Inspiration	A	M141
Coal closure threat	IA	M141
Fall in U.S. refined copper output	IA	J148
Anascondito gains option on gold property	IA	J148
Montana's newest gold mine	NW	J156
Agreement over New Mexican	IA	J162
Inca details Rich Gulch reserves	IA	J162
Uranium has extended Standard Metals acquires	IA	J163
similar	IA	J163
USBR declines contract	IA	J163
Dowlet acquisition	IA	J164
Alcoa plans Washington resumption	IA	J178
Rise in copper	IA	J178
U.S. declares economic zone	IA	J180
Mineral lease ruling	IA	J180
Alaska and Dog bonanza	NW	J180
Mining leases for Landmark Oil	IA	J183
Fibre capacity increased	P	J183
Progress at Questa polybromine	P	M183
Clayton silver mine resumes operation	N	M191
Montana gold mine starts ore processing	N	M191
World's largest construction record achieved in U.S.A.	N	M237
New mining horizons	N	M237
Encouraging results for	IA	J210
Alaska acquires mineral	IA	J210





Rapid excavation and tunnelling IA J044  
Solids/liquids separation IA J044  
Liaison for mining IA J044  
Australian International Mining & Exploration Exhibitions, 1983 M J056  
Industrial minerals IA J063  
Extractive metallurgy of zinc IA J063  
Australian coal preparation SEG: call for papers IA J063  
Small mines IA J115  
Gold mining IA J115  
South African metals and minerals IA J132  
Cadmium gathering IA J132  
The copper industry IA J132  
Iron ore symposium IA J132  
Australian International Mining and Exploration Exhibitions 1983 A M117  
Asian Mining: new date IA J148  
Kaunda to visit ZES IA J164  
Surface mining and quarrying IA J160  
Reagents in the minerals industry IA J195  
Magnesium and ferrous metallurgy IA J213  
Papers invited for the Tenth Annual Conference on Explosives & Blasting Techniques IA J213  
PREPTEC '83 coal preparation exhibition and symposium M J229  
The BAUMA '83 International Construction Equipment Show M J253  
Reclamation '83 IA J273  
Gold and silver in Argentina IA J273  
Government in mineral resources development IA J292  
Papers sought for 12th world mining congress IA J292  
Computer-based mine planning IA J292  
Eighth International Lead conference IA J292  
PREPTEC '83 Coal preparation exhibition and symposium A M305  
Internationale Coal Trade IA J347  
Borehole geophysics IA J347  
Fitch/Dustex '83 IA J347  
Small mine economics and expansion IA J347  
Automation in mining IA J364  
Fire resistant conveyor belts IA J384  
High performance hydrocyclones IA J381  
Power export opportunities IA J381  
Open pit and strip mines IA J381  
World Mining Congress call for papers IA J400  
Borehole geophysics IA J416  
Ferro-alloys IA J416  
Desert terrain prospecting IA J416  
ABMEC '83 exhibition and international conference on mines transport IA J428  
Institute of Metals IA J433  
Asbestos sampling and analysis IA J433  
World Mining Congress anniversary P M407  
ABMEC '83 International Conference on Mines Transport and Exhibition of related British equipment A M439

## EXPLORATION

Drill core library IA J010  
Western Australia: exploration record IA J026  
Alaska's energy and mineral resources P M011  
Sudan's mineral deposits Seismograph for producing shallow reflection records M J110  
More than oil in Saudi Arabia N J121  
AIMEX '83 Exploration is depth NW J189  
New gold horizons N J201  
Analysers for in-hole measurements M J231  
Exploration boost NW J303  
New mineral proposals NW J305  
Computer applications for the mining industry A M365  
Space shuttle potential NW J410

## FILTRATION

Pressure filtration at inspiration A M141  
Large horizontal belt filters M J268  
Belt filters and chamber presses M J376

## FLOTATION METHODS

Pilot scale cell from Norwegian manufacturer M J229  
New machine said to reduce reagent use M J309

## GEOLOGY & ORE RESERVES

Alaska's energy and mineral resources P M011  
Sudan's mineral deposits A M031  
Seismograph for producing shallow reflection records M J110  
Versatile computer-based mineral deposit evaluation system M J288  
Montana's Stillwater Complex P M269  
Copper Band and Portage mines A M274  
Computer applications for the mining industry A M365  
Origins of the Red Sea Rift, the Anfal Troughs and their mineral deposits D M387

## INSTRUMENTATION

Monitoring and control systems underground M M153  
Australian-made electronic metal detector M J102  
Bunker level indicator radar A J108  
Differential speed monitor M J376

## LABOUR

Ok Tedi strike IA J028  
SPCC pay dispute IA J028  
Cominco seeks union IA J028  
SPCC strike illegal IA J044  
Ok Tedi strike over IA J044  
Union ban on mineral sands IA J044  
Indian coal miners strike IA J063  
Mineworkers force majeure IA J063  
Use of metal detectors on gold mines A M037  
W.A. plans safety board IA J080  
Monazite on the move again IA J080  
SPCC strike IA J098  
Unions call for potash inquiry IA J098  
Further attempts to keep smelter open IA J098  
SPCC strike over IA J114  
Mining jobsless IA J114  
Falconbridge offer rejected IA J114  
ADM seeks Zimbabwe lay-offs IA J114  
Miners die at ERPW IA J131  
PCS calls back workers IA J131  
Hiero Peru strike over IA J131  
Cominco proposal rejected IA J132  
Centromin strikes IA J132  
Falconbridge tentative pact IA J148  
U.K. coal strike threat IA J148  
Centromin pay offer rejected IA J148  
Falconbridge contract ratified IA J164  
Centromin strike over IA J164  
Union plan for Bolivian government IA J164  
Turkish mine disaster IA J164  
Spanish miners strike IA J180  
Magma plans labour talks IA J195  
Minero Peru strike ends IA J195  
Further iron ore layoffs IA J195  
Workers end Largentiere occupation IA J195  
Vote for Asarco workers IA J234  
Nippon Mining to pay damages IA J257  
United Keno awaits labour contract IA J257  
Turkish mine accident IA J257  
Asarco contract approved IA J257  
Beisa accident IA J257  
Kennecott concludes labour pact IA J272  
Kloof accident IA J272  
Bolivian strikers occupy mines IA J292  
Copper strike called in Chile IA J292  
Wage agreement for S.A. miners IA J311  
Kitimat workers reject offer IA J311  
St. Joe workers reject contract IA J311  
Workings collapse IA J331  
Guyana bauxite strike IA J331  
Copper workers suspend strike call IA J331  
Greenville job losses IA J331  
Chilean union leaders face prosecution IA J346  
St. Joe contract ratified IA J346  
Mine redundancies in Jamaica IA J363  
Union officials arrested IA J363  
Cominco vote strike IA J363  
Pine Point reopening IA J363  
Bolivia offer for tin strikes IA J363  
SPCC strike threat IA J363  
Aluminium contract negotiated IA J381  
Panasqueira shutdown IA J381  
Cominco: face-to-face talks IA J400  
Guyana strike IA J400  
Black worker representation IA J400  
Further aluminium pacts IA J400  
Kitimat talks underway IA J400  
Drayton hiring labour IA J400  
Cominco workers strike IA J416  
Matlabi agreement IA J416  
Inspiration labour contract agreed IA J416  
Peruvian miners threaten strike action IA J416  
Asbestos workers seek pay

rise IA J416  
Black miners seek 30% increase in wages IA J416  
Copper strike spreads NW J424  
Pay rise for black miners IA J433  
Cominco settlement in B.C. IA J433  
Yungas strike threat IA J433  
Driefontein accident IA J433  
Tungsten layoffs IA J433  
Bauxite strike continues IA J433  
Investing in people E M403

## MAINTENANCE & LUBRICATION

Off-highway tyre changer M J024  
High speed, low cost anti-abrasion techniques M J110  
Abrasion-resistant material has wide application M M241

## MATERIALS HANDLING

Load link indicators M J289  
Power lifting bags have many uses M J289  
Protecting stockpiled materials M J343  
Charleston coal terminal operational M M379  
Tough lightweight shovel M J379  
Progress at Selby A M433

## METALLURGY

Continuous economic recovery of copper from sulphide ores M J024  
Continuous or interruptible? E M003  
New process for the removal of arsenic impurities M J093  
On stream analysis at Wheel Jase A M124

## MINE HOISTING

Power transmission equipment M M070

## MINE MACHINERY

Non-lubricated flexible couplings M M071  
V-belt drives M M073  
Torque control M M073  
Anti-reversal units M M073  
Variable speed pulley drives M M075

## MINERAL PROCESSING

Magnetic hydrocyclone thickener M J006  
Substantial energy savings over conventional vibratory equipment M J024  
New separator for fine gold recovery M J040  
High pressure laboratory hydro-cyclone pump unit M J041  
Duplex concentrator for gravity separation M J057  
Continuous or interruptible? E M003  
Processing a complex iron-apatite ore on the Kola Peninsula D M082  
pH control under difficult conditions M J129  
AIMEX '83 Australian manufacturer's mineral processing test facilities A M117  
Large diameter thickeners at gold mine M M152  
Low toxicity chemical for molybdenum separation M J177  
Cough pipes for mining/ mineral processing use M J192  
Dense medium separators ordered IA J195  
Combined mixer-settler versus conventional solvent extraction - a cost comparison A M202  
The project engineers A M207  
A directory of some of the organisations involved in project consultancy and engineering A M213  
Pilot scale Duplex concentrator M J254  
BTR enters market for wear-resistant materials M J268  
Copper Band and Portage mines A M274  
Project consulting and engineering organisations M M313  
High gradient magnetic separator for U.S. bauxite plant M J328  
Trommel jig placer unit M J344  
New Zealand: iron sand to reined A M346  
Belt filters and chamber presses M J376

## OFFSHORE & DEEP SEA MINING

U.K. - offshore coal exploration NW J052

AIMEX '83 A M117  
U.S. declares economic zone IA J180  
Radiometric techniques for seabed mineral surveys M J208

## OPENCAST MINING

Trombetas bauxite A M018  
Strip mining in Texas A M027  
Mining activity in the Western World A M040  
Partial electrification of trucks in South Africa M J076  
Coal in Western Australia A M112  
Coal in Victoria A M112  
AIMEX '83 A M117

Computer-based truck control system for large B.C. coal mine M J160  
Acquisition of International-Hough complements Dresser product line M J160  
Open pit barytes mining at Ballinacree A M194  
Boom-mounted cutter for opencast and underground M J208  
Energy regeneration for surface-mine haulage trucks A M466

## PIPES & PIPELINES

Tough pipes for mining/ mineral processing use M J192  
Pipeline innovation IA J273  
U.S. coal slurry transport system M M379  
Slurry technology advances NW J408

## PNEUMATICS & HYDRAULICS

Repairing mining subsidence damage M M241

## POLITICO-ECONOMIC

The year ahead N J001  
Excess stocks could depress 1983 prices NW J004  
Japanese stockpiling IA J010  
Australian mining analysed NW J017  
Platinum: a new market N J033  
Copper subsidy extended IA J043  
Chile's buoyant mining sector N J049  
Mining activity in the Western World A M040  
Commodity price support NW J074  
Further mining divestitures abroad? N J085  
South Africa ends exchange controls for non-residents NW J089  
Mineral export earnings to rise NW J090  
Uncertainty follows election call NW J090  
Greek mineral developments N J105  
Stockpile moves NW J107  
Grant for Swedish mining IA J115  
More than oil in Saudi Arabia N J121  
Down, but not under E M099  
Gold takes a tumble N J137  
Japan at a turning point? N J138  
Britain allocates stockpile budget IA J148  
Australia looks to Labor N J153  
Zimbabwe marketing corp. opens IA J163  
Brazil brakes hard N J169  
Hawke's cabinet surprises NW J173  
U.S. declares economic zone IA J180  
Mineral lease ruling IA J180  
New gold horizons N J201  
End of State assistance mandated NW J204  
Iron ore: discourse or discord? N J221  
Picking up the pieces NW J223  
State aid changes NW J225  
China investment plans IA J233  
China's reappraisal N J245  
On gold futures N J246  
Zimbabwe three years on NW J261  
Optimism for recovery NW J265  
Bolivia's hard struggle N J281  
Change of direction in bilateral cooperation NW J286  
Planning technology E M363  
The reorganization of mining in Angola A M396  
Cobalt: back from the brink N J301  
Exploration boost NW J303  
Tanzania: mineral ruling IA J312  
Guarded optimism N J321  
Progress on some fronts NW J325  
Chile's financial problems mount N J337  
Bolivia's mining strategy NW J356  
GOLD 1983 N J369  
Limited recovery? NW J373  
U.S. bids on steel imports IA J381  
Zaire: running out of time N J389  
Congo's problems N J405  
Phosroc and the Third World N J421  
World Mining Congress P M407

## PROJECT ENGINEERING

Engineering excellence E M179  
The project engineers A M207  
A directory of some of the organisations involved in project consultancy and engineering A M213

## PROSPECTING

Compact, lightweight exploration drill M J144  
Planning problems NW J285  
Portable/base station magnetometer M J343

## PUBLICATIONS

Pacific minerals review IA J011  
Copper report IA J011  
Natural uranium - 1982 IA J044  
Uranium and nuclear energy: 1982 IA J044  
Molybdenum report IA J043  
The lighting of underground mines R M059  
Sampling and analysis for the minerals industry R M059  
Minerals of the World IA J115  
Fluorapatite report for USNM IA J115  
Abstracts sought by ISRM IA J115  
Improving the effectiveness of flotation R M151  
Ok Tedi: the pot of gold Lexicon of terms relating to the assessment and classification of coal resources R M151  
Handling dust materials Geological Information proceedings published IA J180  
U.S. mine development study IA J195  
Gold in Brazil - outline bibliography IA J195  
The old copper mines of Sweden R M234  
Handbook of mining and tunnelling machinery R M234  
Surface chemistry of froth flotation R M235  
Mineral jigs: their use, advantages, operation and variations in equipment R M235  
Metals and Minerals Yearbook IA J257  
Bismuth IA J257  
Niobium study IA J273  
Geology of gold in Ontario By-products IA J291  
Raw materials report IA J292  
Minerals handbook 1982-83 R M315  
World tin mining - operations, exploration and developments R M315  
Minisearch IA J364  
The economics of fluorapatite The Soviet fertilizer industry IA J364  
Bismuth: new mines et carriers - 1983 R M376  
The principles of flotation Increased underground extraction of coal R M376  
Readings in North Queensland mining history R M377  
The Greenhouse lead mining field R M377  
Copper production costs High-speed photography in open pits IA J400  
By-product gypsum IA J400  
BP statistical review IA J415  
Mining 1983 IA J416  
Investing in people E M403  
Explosives R M465  
Mine mapping and layout The Wharton Mines in Swaledale R M465

## PUMPING & DRAINAGE

New range for mining M J077  
High-pressure slurry unit M J208

## RESEARCH

Minisearch IA J115  
Coal liquefaction process IA J115  
New mineral service IA J132  
Planning technology E M263  
New light on mining's ancient history A M372  
Slurry technology advances NW J408  
Conveyor belt noise A M449

## RUBBER & PLASTICS

New fibre has wide application in mining industry M J128

## SAFETY & HEALTH

Mine gas outburst early warning system M J006  
Microprocessor-controlled air particulate monitor M J056  
Automatic fire extinguishing W.A. plans safety board IA J080  
Arrestor for mine shaft conveyances M J180  
Turkish mine disaster IA J164  
Thermal cameras can detect spontaneous combustion M J177  
Safer electric system for mine vehicles A M232  
Instantaneous monitoring systems for hazardous dusts M J209  
Effective method of capturing methane from coal seams M J289  
Load link indicators M J289  
Power lifting bags have many uses M J289  
Effective method for sealing off old mine shafts M M311  
Welded parallel exhaust gas purifiers for diesel engines M J412  
Methane explosion at Harmony IA J415  
Briefcase accident IA J433  
Mine disasters IA J433  
Conveyor belt noise A M449

## SCREENING

Wet sieve analyses M J040

## STRATA CONTROL

Mobile shotcrete equipment A new era of powered supports A M443

## SURVEYING

Sudan's mineral deposits IA J027  
Geophysical review IA J183  
Radiometric techniques for seabed mineral surveys M J208  
New gyroscopic theodolite from Hungary M J360  
"Intelligent" precision surveying instrument M M466

## TAXATION & TARIFFS

Tie royalty proposal IA J028  
CYED opposes tax IA J163  
End of State assistance NW J204  
Passer smelter: producer tax threatened IA J273

Tax burden penalizes Queensland coal producers NW J356

## TRADE & STATISTICS

Excess stocks could depress 1983 prices NW J004  
Australasian mining analysed N J017  
Indexing the performance NW J019  
Coal demand falls NW J020  
Supply and demand outlook NW J020  
U.S. coal exports fall IA J027  
Platinum: a new market catalyst? N J033  
Oversupply to continue NW J037  
Non-ferrous trade surplus predicted for 1983 NW J052  
Mine output in 1982 NW J054  
IPAI reports IA J080  
Mining activity in the Western World A M040  
Temporary respite for uranium? N J069  
1982 production estimates NW J073  
Open season for forecasting Greek mineral developments N J105  
Non-ferrous trade surplus ahead? NW J124  
Big fall in mined metal value NW J125  
Gold takes a tumble N J137  
Better export prospects NW J140  
Improved demand cheers producers NW J142  
Fall in U.S. refined copper output IA J148  
Price uncertainties prevail Customers call the tune NW J173  
Nickel: problems remain N J184  
1982 mine production estimates NW J187  
Uranium output for 1982 IA J194  
Primary aluminium output falls IA J194  
The project engineers Promoting mining equipment manufacture in Canada M M239  
A Bird's eye view NW J905  
Iron ore: discourse or discord? N J221  
Picking up the pieces NW J223  
No shortage is sight NW J225  
On gold futures N J246  
Imminent recovery? NW J266  
Magnesium production falls IA J272  
Gloomy forecast from CRU IA J272  
Uncertain outlook NW J285  
By-products IA J291  
Cobalt: back from the brink NW J301  
Demand boom forecast NW J305  
Guarded optimism N J321  
Encouraging outlook NW J324  
Silver - room for caution NW J340  
Lead and zinc: divergent trends N J353  
Higher gold output boosts V.A.'s mineral revenues NW J356  
GULF 1983 N J369  
Limited recovery? NW J373  
Zambia: increased metal shipments IA J380  
Exploration down but development spending NW J393  
Copper prices cut NW J400  
Lead-zinc output down IA J415  
Phosphor and the Third World N J421

## TRANSPORT - GENERAL

New motorized wheels for off-highway trucks M J076  
Partial electrification of trucks in South Africa NW J076  
South Korea plans new port IA J113  
Fishermans coal terminal commissioned IA J148  
Coal handling facility for JCI IA J148

Computer-based truck control system for large B.C. coal mine M J160  
High capacity ropeway system M J181  
Atlas 2000 formed IA J364  
Charleston coal terminal operational M M379  
Progress at Selby A M433  
ABMEC '83 A M439  
Energy regeneration for surface-mine haulage trucks A M456  
D400 articulated dump truck M M467

## TRANSPORT - UNDERGROUND

Safer electric system for mine vehicles A M232  
South African-made continuous haulage system M J308

## TUNNELLING & SHAFT SINKING

U.K. shaft sinking record IA J042  
Titan machines for tunnelling IA J043  
Raise boring at Mount Isa M M152  
World shaft construction record achieved in U.S.A. M M237  
The BAUMA 83 International Construction Equipment Show M J253  
Machines for shaft sinking and raising A M283  
Tunnelling machines compared with drill and blast techniques D M321  
Swedish unit for scaling in mines and tunnels M J376  
Progress at Selby A M416  
A new era of powered supports A M443

## UNDERGROUND MINING

Mining activity in the Western World A M040  
British/Soviet co-operation on roadheader machine M J076  
Coal in Western Australia A M110  
AIMEX '83 A M117  
Monitoring and control systems underground M M153  
New flameproofed 1 yd<sup>3</sup> electric loader M J144  
Giant mining machine M J192  
Boom-mounted cutter for open-pit underground mines M J208  
Copper Hand and Portage A M274  
Machines for shaft sinking and raising A M283  
Use of continuous miners in the Alsace potash mines D M320  
Czech mining equipment M M380  
Progress at Selby A M416  
Continuous miner breaks world record M M466

## VENTILATION & DUST CONTROL

Power transmission equipment M M070

## Companies and Other Public Bodies

### A

Aberfoyle MF J182 NE J276  
Acoje Mining  
Adamson Buttery Engineering A M437  
AEC Inc. M J192  
Aerex IA J115  
Africa Associated Mines IA J114  
Afrifinder Lease IA J345  
Agnico-Eagle A M117  
Aher Trondelag M J229  
Alan Cobham Engineering M J429  
Alaska Apollo Gold Mines IA J330

Albras Aluminio Brasileiro SA NW J071  
Alican IA J027  
NW J053 MF J067  
IA J347 MF J349  
Alcon IA J011 IA J027  
MF J066 IA J163  
MF J317 MF J335  
Alcoa of Australia IA J009  
Allied Eneabba IA J044  
Allis-Chalmers A M023  
Alreco Metals P M102  
Alumax Pacific Corp. MF J012  
Aluminium Italia IA J060  
IA J027

Aluminum Pechiney IA J027  
ANAS NW J038  
Anas NW J015  
NW J021 IA J027  
IA J050 IA J079  
IA J148 MF J236  
Amber Coal Co. MF J299  
AMCA International IA J291  
American Electric Power Co. NW J053  
American Gold Investment MF J183  
American Marine & Machinery Co. N J025  
Americo Nuclear Corp. IA J011  
Amoco Canada Petroleum IA J043  
AMP Society NW J107  
Amsoil IA J028

Anaconda IA J026 N J034 IA J009  
IA J043 N J050 NW J038  
MF J084 IA J096 IA J148  
IA J195 IA J272 IA J329  
IA J414  
Anamax Mining Corp. IA J042  
Anderson Strathclyde MF J016  
MF J031 N J078 MF J084  
MF J135 IA J163 IA J379  
A M419 A M429  
Anglo American MF J065 MF J198 NE J214  
MF J218 MF J296 MF J383  
Anglo American Coal Corp. MF J348  
ME J350 MF J434 ME J364



J047  
 J030  
 J042  
 J147  
 M015  
 J346  
 J027  
 J046  
 J010  
 J060  
 J194  
 J349  
 J060  
 J026  
 J271  
 J349  
 J004  
 J043  
 J059  
 J197  
 M339  
 M018  
  
 J114  
 J399  
  
 J347  
 J220  
 J229  
 J042  
 M181  
 J028  
 J148  
 J310  
  
 J223  
  
 J038  
 J011  
 J038  
 J273  
 M032  
 J144  
 J160  
 M163  
 J043  
 J010  
 M037  
 J312  
 J038  
 J213  
 J148  
 J012  
 J079  
 M154  
 J010  
  
 J011  
 J187  
 J053  
 J030  
 M070  
 J129  
 J146  
 J229  
 J347  
 M443  
 J043  
 J015  
 J016  
 J256  
 J059  
 J413  
 J081  
 J114  
 J273  
 J045  
 J085  
 J046  
 J178  
 J334  
 J182  
 J078  
 M346  
 J380  
 J146  
 J037  
 J038  
 J234  
 J011  
 J011  
 J036  
 J038  
 J059  
 J130  
 J193  
 J274  
 J362  
 J409  
 J011  
 J043  
 J048  
 J059  
 J379  
 J349  
 J080  
 J100  
 J291  
 J415  
 J029  
 J297  
 J349  
 M274  
 J078  
 J349  
 J198  
 J0193





APR 10 1942

DL

48

83

5

MI

THE UNIVERSITY OF CHICAGO

PHILOSOPHY DEPARTMENT



[The following text is extremely faint and illegible due to the quality of the scan. It appears to be a list or index of items, possibly names and titles, arranged in columns.]

170021

DL

48

83

MI



